







# **PEDAL DRIVE, ESPECIALLY FOR BICYCLES**

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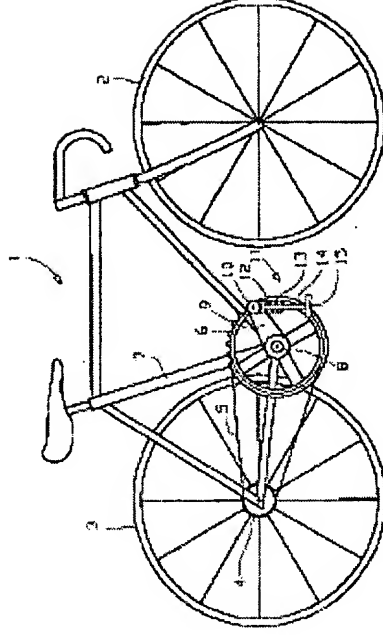
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**Cited documents:**  
 US5636554  
 DE4114649  
 WO9922981  
 US2316530  
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## **Abstract of WO0100480**

The invention relates to a pedal drive in which two pedalling arms (9) are coupled by a freewheel to a pedal bearing axle (8) of a drive wheel (6) and are moved back and forth within a limited angle range. Longitudinally elastic pedal arms (11) are joined to the free ends of the pedalling arms (9) in an articulated manner and extend telescopically when a corresponding pedal (15) is operated. In a loaded limit position of the pedalling arm (9), in which the pedal (15) is essentially stationary for a short time, the energy that has been temporarily stored in a spring element (13) of the pedal arm (11) is used to continue to rotate the drive wheel (6). Once the pedal (15) has been relieved of its load, the remaining energy is used to restore the pedalling arm (9) and the pedal arm (11) to their starting position.



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